

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	11	(astn ason gmpls) with failure with protection	US-PGPUB; USPAT	OR	ON	2009/06/12 10:47
L5	11	l4 and (command\$4 messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 directive inform\$4 order\$4 request\$4)	US-PGPUB; USPAT	OR	ON	2009/06/12 10:48
L18	9053	385/24.ccls. 398/059.ccls. 709/227.ccls.	US-PGPUB; USPAT	OR	ON	2009/06/12 11:46
L19	4505	370/228,225,216-228,241 +,229+,503+.ccls.	US-PGPUB; USPAT	OR	ON	2009/06/12 11:46
L20	13505	L19 l18	US-PGPUB; USPAT	OR	ON	2009/06/12 11:46
L21	930	(first near2 ((restor\$6 recover\$4 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) same (answer\$4 respond\$4 reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/12 11:47
L22	83	l20 and L21	US-PGPUB; USPAT	OR	ON	2009/06/12 11:47
L23	53	((((redundant protection back\$1up fail\$1over "self healing" self-healing) near4 (network ring loop)) MS-SPRing "MS-SP ring" SNCP) and (primary near2 (node terminal element)) near6 (query\$4 inquir\$4 messag\$4 notif\$7 report\$4 announc\$5 alert\$4 signal\$5 alarm) with (answer\$4 respond\$4 acknowledg\$4 response reply\$4)	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L24	232	((network near3 (ring loop)) MS-SPRing "MS-SP ring" SNCP) and ((first primary) near2 (node terminal element)) near6 (answer\$4 respond\$4 acknowledg\$4 response reply\$4) near6 (query\$4 inquir\$4 messag\$4 notif\$7 report\$4 announc\$5 alert\$4 signal\$5 alarm)	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48

L25	229	L24 not L23	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L26	37	I20 and L25	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L27	38	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with "control plane" same (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L28	8	I20 and L27	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L29	2417	370/228,225,216,241+ ,229 + ,503+ .ccls.	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L30	2417	I20 and L29	US-PGPUB; USPAT	OR	ON	2009/06/12 11:48
L31	4215	(second near4 (network ring loop circuit)) with ((control\$4 master) (cooperat\$4 slave)) with ((destination origin source root leaf) near4 (node termination terminus terminal junction juncture \$10point station connection))	US-PGPUB; USPAT	OR	ON	2009/06/12 11:49
L32	29	I20 and L31	US-PGPUB; USPAT	OR	ON	2009/06/12 11:49
S1	1	"10598087"	US-PGPUB; USPAT	OR	ON	2009/05/31 16:46
S2	76	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with "control plane"	US-PGPUB; USPAT	OR	ON	2009/05/31 17:08
S3	76	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with ("control plane" control-plane)	US-PGPUB; USPAT	OR	ON	2009/05/31 17:12
S4	38	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with "control plane" same (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/05/31 17:14

S5	2407	370/228,225,216,241+ ,229 + ,503+ .ccls.	US- PGPUB; USPAT	OR	ON	2009/05/31 17:18
S6	10	S2 and S5	US- PGPUB; USPAT	OR	ON	2009/05/31 17:18
S7	8	S4 and S5	US- PGPUB; USPAT	OR	ON	2009/05/31 17:19
S9	6	"US 6259837 B1"	US- PGPUB; USPAT	OR	ON	2009/06/01 10:31
S10	3	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with "control plane" same (second near4 (network ring))	US- PGPUB; USPAT	OR	ON	2009/06/01 11:29
S11	121	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) and "control plane" and (node termination junction juncture \$10point intersection terminal mobile station device)	US- PGPUB; USPAT	OR	ON	2009/06/01 11:34
S12	38	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with "control plane" same (node termination junction juncture \$10point intersection terminal mobile station device)	US- PGPUB; USPAT	OR	ON	2009/06/01 11:35
S13	2407	370/228,225,216,241+ ,229 + ,503+ .ccls.	US- PGPUB; USPAT	OR	ON	2009/06/01 11:35
S14	8	S12 and S13	US- PGPUB; USPAT	OR	ON	2009/06/01 11:35
S15	8	S14 and (automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) and "control plane" and (node termination junction juncture \$10point intersection terminal mobile station device)	US- PGPUB; USPAT	OR	ON	2009/06/01 11:35
S16	98	"heartbeat protocol"	US- PGPUB; USPAT	OR	ON	2009/06/01 12:16
S17	1	"heartbeat protocol" same "control plane"	US- PGPUB; USPAT	OR	ON	2009/06/01 12:17

S18	38	"heartbeat protocol" same (node terminal terminus termination junction juncture \$10point intersection mobile station device)	US- PGPUB; USPAT	OR	ON	2009/06/01 12:18
S19	61	"heartbeat protocol" same (fail \$4 break fault stop)	US- PGPUB; USPAT	OR	ON	2009/06/01 12:22
S20	30	S18 and S19	US- PGPUB; USPAT	OR	ON	2009/06/01 12:22
S21	29	"heartbeat protocol" same (reset\$4 readjust\$4 reorganiz \$4 chang\$4 alter\$4 adjust\$4 adapt\$4 establish\$4 initiat\$4 replac\$4)	US- PGPUB; USPAT	OR	ON	2009/06/01 13:18
S22	27	S19 and S21	US- PGPUB; USPAT	OR	ON	2009/06/01 13:19
S23	1014	(second near4 (network ring loop circuit)) near8 ((destination origin source root leaf) near4 (node termination terminu terminal junction juncture \$10point intersection mobile station device connection) near4 ((control\$4 master) (cooperat\$4 slave)))	US- PGPUB; USPAT	OR	ON	2009/06/02 11:39
S24	2410	370/228,225,216,241+ ,229 + ,503+ .ccls.	US- PGPUB; USPAT	OR	ON	2009/06/02 11:40
S25	5	S24 and S23	US- PGPUB; USPAT	OR	ON	2009/06/02 11:40
S26	1014	(second near4 (network ring loop circuit)) near8 ((destination origin source root leaf) near4 (node termination terminu terminal junction juncture \$10point intersection mobile station device connection) near4 ((control\$4 master) (cooperat\$4 slave)))	US- PGPUB; USPAT	OR	ON	2009/06/02 12:24
S27	4201	(second near4 (network ring loop circuit)) with ((control\$4 master) (cooperat\$4 slave)) with ((destination origin source root leaf) near4 (node termination terminus terminal junction juncture \$10point station connection))	US- PGPUB; USPAT	OR	ON	2009/06/02 12:29

S28	2410	370/228,225,216,241+,229 +,503+ .ccls.	US- PGPUB; USPAT	OR	ON	2009/06/02 15:32
S29	4201	(second near4 (network ring loop circuit)) with ((control\$4 master) (cooperat\$4 slave)) with ((destination origin source root leaf) near4 (node termination terminus terminal junction juncture \$10point station connection))	US- PGPUB; USPAT	OR	ON	2009/06/02 15:32
S30	9	S28 and S29	US- PGPUB; USPAT	OR	ON	2009/06/02 15:32
S31	0	(second near4 (network ring loop circuit)) same ((control\$4 master) near3 (origin source root) near3 (node termination terminus terminal junction juncture \$10point station connection)) same ((cooperator slave) near3 (destination leaf) near3 (node termination terminusterminal junction juncture \$10point station connection))	US- PGPUB; USPAT	OR	ON	2009/06/02 15:39
S32	23	(second near4 (network ring loop circuit)) and ((control\$4 master) near3 (origin source root) near3 (node termination terminus terminal junction juncture \$10point station connection)) same ((cooperator slave) near3 (destination leaf) near3 (node termination terminusterminal junction juncture \$10point station connection))	US- PGPUB; USPAT	OR	ON	2009/06/02 17:07
S33	1	((second other additional) near4 (network ring loop circuit)) and ((control\$4 master) near3 (origin source root) near3 (node termination terminus terminal junction juncture \$10point station connection)) and ((cooperator slave) near3 (destination leaf) near3 (node termination terminusterminal junction juncture \$10point station connection)) and synchroniz\$7 with (fail\$4 break fault stop)	US- PGPUB; USPAT	OR	ON	2009/06/02 17:11

S34	310	((second other additional) near4 (network ring loop circuit)) and ((control\$4 master root) near3 (origin source node termination terminus terminal junction juncture \$10point station connection)) and ((cooperator slave leaf) near3 (destination node termination terminus terminal junction juncture \$10point station connection)) and synchroniz\$7 with (fail\$4 break fault stop)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:16
S35	2410	370/228,225,216,241+ ,229 + ,503+ .ccls.	US-PGPUB; USPAT	OR	ON	2009/06/02 17:17
S36	9	S35 and S34	US-PGPUB; USPAT	OR	ON	2009/06/02 17:17
S37	320	((redundant second other additional) near4 (network ring loop circuit)) and ((control\$4 master root) near3 (origin source node termination terminus terminal junction juncture \$10point station connection)) and ((cooperator slave leaf) near3 (destination node termination terminus terminal junction juncture \$10point station connection)) and synchroniz\$7 with (fail\$4 break fault stop)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:23
S38	4	((redundant second) near4 (network ring loop)) and ((control\$4 master root) near4 (origin source) near4 (node termination terminus terminal junction juncture \$10point station connection)) and ((cooperator slave leaf) near4 destination near4 (node termination terminus terminal junction juncture \$10point station connection)) and synchroniz\$7 with (fail\$4 break fault stop)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:28

S39	4	((redundant second) near2 (network ring loop)) and ((control\$4 master root) near4 (origin source) near4 (node termination terminus terminal junction juncture \$10point station connection)) and ((cooperator slave leaf) near4 destination near4 (node termination terminus terminal junction juncture \$10point station connection)) and synchroniz\$7 with (fail\$4 break fault stop)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:30
S40	5	((redundant second) near2 (network ring loop)) and ((control\$4 master root) near4 (origin source)) and ((cooperator slave leaf) near4 destination) and synchroniz\$7 with (fail\$4 fault defect mistake)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:34
S41	67	((redundant second) near2 (network ring loop)) and ((controller master root) near4 (origin source)) and ((cooperator slave leaf) near4 destination)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:36
S42	18	((redundant) near2 (network ring loop)) and ((controller master root) near4 (origin source)) and ((cooperator slave leaf) near4 destination)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:38
S43	24	((redundant "self healing" self-healing) near2 (network ring loop)) and ((controller master root) near4 (origin source)) and ((cooperator slave leaf) near4 destination)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:39
S44	2	((cooperator slave leaf) near4 destination) with ((second additional redundant other) adj (network ring loop))	US-PGPUB; USPAT	OR	ON	2009/06/02 17:42
S45	11	((cooperator slave leaf) near4 destination) same ((second additional redundant other) adj (network ring loop))	US-PGPUB; USPAT	OR	ON	2009/06/02 17:42

S46	70	((redundant "self healing" self-healing second) near2 (network ring loop)) and ((controller master root) near4 (origin source)) and ((cooperator slave leaf) near4 destination)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:58
S47	33	((redundant "self healing" self-healing second) adj (network ring loop)) and ((controller master root) near4 (origin source)) and ((cooperator slave leaf) near4 destination)	US-PGPUB; USPAT	OR	ON	2009/06/02 17:58
S48	4	((redundant "self healing" self-healing second) adj (network ring loop)) and ((controller master root) near4 (origin source)) and ((cooperator slave leaf destination) near4 (detect\$4 sens\$ determin\$4 observ\$4 monitor\$4 discover\$4) near4 (sync\$14 near2 (fail\$4 fault break\$4 defect error)))	US-PGPUB; USPAT	OR	ON	2009/06/02 18:30
S49	3	((cooperator slave leaf destination) near4 (detect\$4 sens\$ determin\$4 identify\$4 discover\$4) near4 (sync\$14 near2 (fail\$4 fault break\$4)))	US-PGPUB; USPAT	OR	ON	2009/06/02 18:33
S50	10	((cooperator slave leaf destination) near4 (detect\$4 sens\$ determin\$4 identify\$4 discover\$4) near6 (sync\$14 near4 (fail\$4 fault break\$4)))	US-PGPUB; USPAT	OR	ON	2009/06/02 18:34
S51	22	((cooperator slave leaf destination) near6 (detect\$4 sens\$ determin\$4 identify\$4 discover\$4 recogniz\$4) near6 (sync\$14 near6 (fail\$4 fault break\$4)))	US-PGPUB; USPAT	OR	ON	2009/06/02 18:40
S52	21	S51 not S41	US-PGPUB; USPAT	OR	ON	2009/06/02 18:40
S53	1	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) and "control plane" and (node termination junction juncture \$10point intersection terminal mobile station device) and (multiplex near2 section near2 protection near2 ring) and (MS-SPRing)	US-PGPUB; USPAT	OR	ON	2009/06/03 10:00



S54	4	(SONET SDH) and (multiplex near2 section near2 protection near2 ring) and (MS-SPRing) and "control plane" and (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/03 10:02
S55	4	(multiplex near2 section near2 protection near2 ring) and (MS-SPRing) and "control plane" and (node termination junction juncture \$10point intersection terminal mobile station device) and (redundant restor\$7 "self healing" self-healing)	US-PGPUB; USPAT	OR	ON	2009/06/03 10:06
S56	32	(multiplex near2 section near2 protection near2 ring) and (MS-SPRing) and (node termination junction juncture \$10point intersection terminal mobile station device) and (redundant restor\$7 "self healing" self-healing)	US-PGPUB; USPAT	OR	ON	2009/06/03 10:07
S57	33	(multiplex near2 section near2 protection near2 ring) and (MS-SPRing "ms-sp ring") and (node termination junction juncture \$10point intersection terminal mobile station device) and (redundant restor\$7 "self healing" self-healing)	US-PGPUB; USPAT	OR	ON	2009/06/03 10:08
S58	0	(automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS) with (multiplex near2 section near2 protection near2 ring) and (MS-SPRing "ms-sp ring") and (restor\$7 "self healing" self-healing repair\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:03
S59	0	(multiplex near2 section near2 protection near2 ring) and (MS-SPRing "ms-sp ring") with (restor\$7 "self healing" self-healing repair\$4) with (automatic\$5 near3 switch\$4 near4 network) and (ASON ASTN MPLS GMPLS)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:03

S60	0	(automatic\$5 near3 switch\$4 near4 network) and (multiplex near2 section near2 protection near2 ring) and (MS-SPRing "ms-sp ring") with (restor\$7 "self healing" self-healing repair\$4) with (ASON ASTN MPLS GMPLS)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:03
S61	2	(MS-SPRing "ms-sp ring") with (restor\$7 "self healing" self-healing repair\$4) with (ASON ASTN MPLS GMPLS)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:04
S62	2	(MS-SPRing "ms-sp ring") with (restor\$7 "self healing" self-healing repair\$4) with (ASON ASTN MPLS GMPLS) and snpc	US-PGPUB; USPAT	OR	ON	2009/06/03 11:05
S63	2	(MS-SPRing "ms-sp ring") with (ASON ASTN MPLS GMPLS) same (restor\$7 "self healing" self-healing repair\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:07
S65	2	(MS-SPRing "ms-sp ring") same (ASON ASTN MPLS GMPLS) same (restor\$7 "self healing" self-healing repair\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:07
S66	4	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) with (restor\$7 "self healing" self-healing repair\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:08
S67	4	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) with (restor\$7 "self healing" self-healing repair\$4) and (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:16
S68	5	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) same (restor\$7 "self healing" self-healing repair\$4) and (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:26
S69	5	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) same (restor\$7 "self healing" self-healing repair\$4 recover \$4) and (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:29

S70	8	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) and (restor\$7 "self healing" self-healing repair\$4 recover \$4) and (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/03 11:29
S71	5	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) and (restor\$7 "self healing" self-healing repair\$4 recover \$4) and (node termination junction juncture \$10point intersection terminal mobile station device) and sncp	US-PGPUB; USPAT	OR	ON	2009/06/03 11:33
S72	3	(MS-SPRing "ms-sp ring") and (ASON ASTN MPLS GMPLS) with (restor\$7 "self healing" self-healing repair\$4 recover\$4 reestablish\$4 re-establish\$4 regnerat\$4 reconstruct\$4 mend \$4 reactivat\$4 re-activat\$4) and (node termination junction juncture \$10point intersection terminal mobile station device fix\$4) and sncp	US-PGPUB; USPAT	OR	ON	2009/06/03 11:42
S73	5	dnni	US-PGPUB; USPAT	OR	ON	2009/06/03 12:04
S74	9	((((redundant protection back \$1up fail\$1over "self healing" self-healing) near4 (network ring loop)) MS-SPRing "MS-SP ring" SNCP) and (primary near2 (node terminal element)) near6 (query\$4 inquir\$4 messag\$4 notif\$7 report\$4 announc\$5 alert\$4 signal\$5 alarm) with fail\$5 with (answer\$4 respond\$4 acknowledg\$4 response reply \$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:17

S75	53	((redundant protection back \$1up fail\$1over "self healing" self-healing) near4 (network ring loop)) MS-SPRing "MS-SP ring" SNCP) and (primary near2 (node terminal element)) near6 (query\$4 inquir\$4 messag\$4 notif\$7 report\$4 announc\$5 alert\$4 signal\$5 alarm) with (answer\$4 respond\$4 acknowledg\$4 response reply\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:25
S76	231	((network near3 (ring loop)) MS-SPRing "MS-SP ring" SNCP) and ((first primary) near2 (node terminal element)) near6 (answer\$4 respond\$4 acknowledg\$4 response reply\$4) near6 (query\$4 inquir\$4 messag\$4 notif\$7 report\$4 announc\$5 alert\$4 signal\$5 alarm)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:42
S77	228	S76 not S75	US-PGPUB; USPAT	OR	ON	2009/06/03 12:42
S78	2410	370/228,225,216,241+ ,229 + ,503+ .ccls.	US-PGPUB; USPAT	OR	ON	2009/06/03 12:43
S79	19	S78 and S77	US-PGPUB; USPAT	OR	ON	2009/06/03 12:43
S80	1	snpc and virtual near2 (ring loop) with (fail\$4 fault fault break\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:44
S81	1	snpc with virtual near2 (ring loop)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:45
S82	5	snpc with virtual	US-PGPUB; USPAT	OR	ON	2009/06/03 12:45
S83	9	((redundant protection back \$1up fail\$1over "self healing" self-healing) near4 (network ring loop)) MS-SPRing "MS-SP ring" MS/SPRING SNCP) and (primary near2 (node terminal element)) near6 (query\$4 inquir\$4 messag\$4 notif\$7 report\$4 announc\$5 alert\$4 signal\$5 alarm) with fail\$5 with (answer\$4 respond\$4 acknowledg\$4 response reply\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:46

S84	9	sncp and virtual with (ring loop)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:48
S85	9	sncp and virtual with (ring loop) and (fail\$4 fault fault defect error mistake break\$5)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:51
S86	9	sncp and virtual with (ring loop) and (fail\$4 fault fault defect error mistake break\$5) and (primary first second\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 12:53
S87	3	sncp with (fail\$4 fault fault defect error mistake break\$5) with (primary first second\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:11
S88	11	sncp same (fail\$4 fault fault defect error mistake break\$5) with (primary first second\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:11
S89	45	sncp and (fail\$4 fault fault defect error mistake break\$5) with (primary first second\$4)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:16
S90	4	sncp with (ASON ASTN MPLS GMPLS) and (restor\$7 "self healing" self-healing repair\$4 recover\$4) with (node termination junction juncture \$10point intersection terminal mobile station device)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:17
S91	6	sncp with (ASON ASTN MPLS GMPLS)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:39
S92	2	sncp same (ASON ASTN)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:40
S93	5	sncp and (ASON ASTN)	US-PGPUB; USPAT	OR	ON	2009/06/03 13:40
S94	9	S74 and (primary first second \$4) and (fail\$4 fault break\$5)	US-PGPUB; USPAT	OR	ON	2009/06/03 14:10
S95	6	both near2 primary near2 (node terminal element) with (detect\$4 sens\$4 identif\$7 discover\$4 see\$4) near4 (fault fail\$4 break\$5)	US-PGPUB; USPAT	OR	ON	2009/06/03 15:08
S96	1	(blsr ms-spring "ms-sp ring") same sncp same (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 15:56
S97	1	(blsr ms-spring "ms-sp ring") and sncp same (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 15:57

S98	3	(blsr ms-spring "ms-sp ring") and sncp and (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 15:57
S99	6	(blsr bpsr upsr sncp) with (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 16:06
S100	6	S99 and (blsr bpsr upsr sncp) and (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 16:14
S101	9	(blsr bpsr upsr sncp) same (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 16:16
S102	9	S101 and (blsr bpsr upsr sncp) and (ason astn gmpls "restoration mpls")	US-PGPUB; USPAT	OR	ON	2009/06/03 16:19
S103	1	(sncp ms-springs "ms-sp rings") with restor\$7 with (second multiple plural "more than one" "one or more") near3 (message notif\$7 indicat \$6 direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/04 07:39
S104	1	(sncp ms-springs "ms-sp rings") same restor\$7 with (second multiple plural "more than one" "one or more") near3 (message notif\$7 indicat \$6 direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/04 07:42
S105	149	(network ring loop) same restor\$7 with (second multiple plural "more than one" "one or more") near3 (message notif\$7 indicat\$6 direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/04 07:42
S106	1	(sncp ms-springs "ms-sp rings") and restor\$7 with (second multiple plural "more than one" "one or more") near3 (message notif\$7 indicat \$6 direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/04 07:42
S107	5	(sncp ms-springs "ms-sp rings") and restor\$7 same (second multiple plural "more than one" "one or more") near3 (message notif\$7 indicat \$6 direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/04 07:42

S108	5	((network ring loop) same ((first primary) near2 (node terminal element device endpoint)) with (answer\$4 reply\$4 acknoledg\$4 respond\$4) same restor\$7 with (second multiple plural "more than one" "one or more") near3 (message notif\$7 indicat\$6 direct\$5)	US-PGPUB; USPAT	OR	ON	2009/06/04 07:46
S109	3	(sncp ms-springs "ms-sp rings") with (message notif\$7 indicat\$6 direct\$5) with (answer\$4 reply\$4 respond\$4 acknowledged\$6)	US-PGPUB; USPAT	OR	ON	2009/06/04 08:22
S110	0	"l8" and (sncp ms-springs "ms-sp rings") and (message notif\$7 indicat\$6 direct\$5) and (answer\$4 reply\$4 respond\$4 acknowledged\$6) and (restor\$7 protect\$5 sf)	US-PGPUB; USPAT	OR	ON	2009/06/04 08:23
S111	0	"l8" and (sncp ms-springs "ms-sp rings") and (message notif\$7 indicat\$6 direct\$5) and (answer\$4 reply\$4 respond\$4 acknowledged\$6)	US-PGPUB; USPAT	OR	ON	2009/06/04 08:24
S112	0	"l8" and (sncp ms-springs "ms-sp rings") and (message notif\$7 indicat\$6 direct\$5) and (answer\$4 reply\$4 respond\$4 acknowledged\$6)	US-PGPUB; USPAT	OR	ON	2009/06/04 08:24
S113	37	(sncp ms-springs "ms-sp rings") and (message notif\$7 indicat\$6 direct\$5) and (answer\$4 reply\$4 respond\$4 acknowledged\$6)	US-PGPUB; USPAT	OR	ON	2009/06/04 08:25
S114	0	"l8" and S113	US-PGPUB; USPAT	OR	ON	2009/06/04 08:25
S115	0	"l18" and S113	US-PGPUB; USPAT	OR	ON	2009/06/04 08:25
S116	3	S109 and (sncp ms-springs "ms-sp rings") and (message notif\$7 indicat\$6 direct\$5) and (answer\$4 reply\$4 respond\$4 acknowledged\$6)	US-PGPUB; USPAT	OR	ON	2009/06/04 08:25
S117	0	((node near2 node near2 interface) nni) near4 (primary near2 terminal)	US-PGPUB; USPAT	OR	ON	2009/06/09 09:03

S118	0	((node near2 node near2 interface) nni) with (primary near2 terminal)	US-PGPUB; USPAT	OR	ON	2009/06/09 09:03
S119	0	((node near2 node near2 interface) nni) same (primary near2 terminal)	US-PGPUB; USPAT	OR	ON	2009/06/09 09:03
S120	8	((node near2 node near2 interface) nni) and (primary near2 terminal)	US-PGPUB; USPAT	OR	ON	2009/06/09 09:03
S121	2	"7035203"	US-PGPUB; USPAT	OR	ON	2009/06/09 10:11
S122	1	"7391720"	US-PGPUB; USPAT	OR	ON	2009/06/09 10:16
S123	0	"EP1499049"	US-PGPUB; USPAT	OR	ON	2009/06/09 10:19
S124	0	"EP 1499049"	US-PGPUB; USPAT	OR	ON	2009/06/09 10:20
S125	0	"EP1499049"	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 10:20
S126	1	"EP 1499049"	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 10:20
S127	0	("add drop" add/drop a/d) adj (multiplex\$4 mux) with restor \$6 near3 (message notification announc\$5 indicat\$5)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 11:11
S128	0	("add drop" add/drop a/d) adj (multiplex\$4 mux) same restor \$6 near3 (message notification announc\$5 indicat\$5)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 11:12
S129	73	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$6 near3 (message notification announc\$5 indicat\$5)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 11:12
S130	6	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$6 near3 (message notification announc\$5 indicat\$5) and (ASTN ASON GMPLS)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 11:40
S131	0	"US 2007/0153674 A1"	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:02



S132	1	"US 20070153674 A1"	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:02
S133	6	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$6 near3 (message notification announc\$5 indicat\$5) and (ASTN ASON GMPLS) and (messag\$4 notif\$8 indicat\$4)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:07
S134	6	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$6 near3 (message notification announc\$5 indicat\$5 alert\$5) and (ASTN ASON GMPLS)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:09
S135	6	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$6 near5 (message notification announc\$5 indicat\$5 alert\$5) and (ASTN ASON GMPLS)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:09
S136	6	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$9 near5 (message notification announc\$5 indicat\$5 alert\$5) and (ASTN ASON GMPLS)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:09
S137	9	("add drop" add/drop a/d) adj (multiplex\$4 mux) and restor \$6 near9 (message notification announc\$5 indicat\$5 alert\$5) and (ASTN ASON GMPLS)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:10
S138	1	"EP 03291454.1"	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:11
S139	1	(ASTN ASON GMPLS) with (restor\$6 near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with (second plural mutiple)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:14
S140	2	(ASTN ASON GMPLS) same (restor\$6 near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with (second plural mutiple)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:14
S141	9	(ASTN ASON GMPLS) and (restor\$6 near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with (second plural mutiple)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:15

S142	1	(ASTN ASON GMPLS) same (restor\$6 near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with fail\$5 with (answer\$4 reply\$4 respond\$4)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:17
S143	1	(ASTN ASON GMPLS) same (restor\$6 near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with fail\$5 with (answer\$4 reply\$4 respon\$6)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:18
S144	4	(ASTN ASON GMPLS) same (restor\$6 near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with fail\$5	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:18
S145	9	(ASTN ASON GMPLS) same ((restor\$6 connect\$4 re-connect\$4) near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with fail\$5	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:25
S146	9	(ASTN ASON GMPLS) same ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) with fail\$5	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:27
S147	18	(ASTN ASON GMPLS) same ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) near9 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) same fail\$5	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:27
S148	18	S147 and (ASTN ASON GMPLS) and ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) and (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) and fail\$5	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:31
S149	74	(ASTN ASON GMPLS) and ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) same (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) same fail\$5 same (answer\$4 respon\$6 reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:36

S150	7	(ASTN ASON GMPLS) same ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) same (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) same fail\$5 same (answer\$4 respon\$6 reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:36
S151	20	(ASTN ASON GMPLS blsr bpsr upsr) same ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) same (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5)) same fail\$5 same (answer\$4 respond\$4 response reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 13:40
S152	2	(ASTN ASON GMPLS blsr bpsr upsr) and (second near2 ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5))) same fail\$5 same (answer\$4 respond\$4 response reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:23
S153	17	(ASTN ASON GMPLS blsr bpsr upsr) and (second near2 ((restor\$6 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5))) same (answer\$4 respond\$4 response reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:24
S154	18	(ASTN ASON GMPLS blsr bpsr upsr) and (second near2 ((restor\$6 recover\$4 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5))) same (answer\$4 respond\$4 response reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:29

S155	118	(ASTN ASON GMPLS blsr bpsr upsr sncp ms-spring ms-sp- ring "ms-sp ring" sdh sonet) and (second near2 ((restor\$6 recover\$4 connect\$4 re- connect\$4 reconnect\$4) near4 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5))) same (answer\$4 respond\$4 response reply\$4 acknowledg \$6 ack)	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:35
S156	5	(ASTN ASON GMPLS blsr bpsr upsr sncp ms-spring ms-sp- ring "ms-sp ring" sdh sonet) same (second near2 ((restor\$6 recover\$4 connect\$4 re- connect\$4 reconnect\$4) near4 (request\$4 messag\$4 notif\$8 announc\$5 indicat\$5 alert\$5))) same (answer\$4 respond\$4 response reply\$4 acknowledg \$6 ack)	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:42
S157	31	(second near2 ((restor\$6 recover\$4 connect\$4 re- connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) same (fail\$4 near3 (answer\$4 respond\$4 response reply\$4 acknowledg\$6 ack))	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:49
S158	18	(second near2 ((restor\$6 recover\$4 connect\$4 re- connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) with (fail\$4 near3 (answer\$4 respond\$4 response reply\$4 acknowledg\$6 ack))	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:49
S159	7	(first near2 ((restor\$6 recover \$4 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) with (fail\$4 near3 (answer\$4 respond\$4 reply\$4 acknowledg\$6 ack))	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 14:59
S160	14	(first near2 ((restor\$6 recover \$4 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) same (fail\$4 near3 (answer\$4 respond\$4 reply\$4 acknowledg\$6 ack))	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 15:00
S161	929	(first near2 ((restor\$6 recover \$4 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) same (answer\$4 respond\$4 reply\$4 acknowledg \$6 ack)	US- PGPUB; USPAT; EPO	OR	ON	2009/06/09 15:02

S162	2	(ASTN ASON GMPLS blsr bpsr upsr snop ms-spring ms-sp-ring "ms-sp ring" sdh sonet) same (first near2 ((restor\$6 recover\$4 connect\$4 re-connect\$4 reconnect\$4) near4 (request\$4 messag\$4))) same (answer\$4 respond\$4 reply\$4 acknowledg\$6 ack)	US-PGPUB; USPAT; EPO	OR	ON	2009/06/09 15:03
S163	4499	370/228,225,216-228,241 + ,229+ ,503+ .ccls.	US-PGPUB; USPAT	OR	ON	2009/06/09 15:05
S164	24	S161 and S163	US-PGPUB; USPAT	OR	ON	2009/06/09 15:05
S165	1007	(((\$6network \$6ring "ms-sp ring" upsr bpsr blsr) with (protect\$5 recover\$4 rerout\$4 restor\$6)) and ((protect\$5 recover\$4 rerout\$4 restor\$6) with (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4) with (fault fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback)))	US-PGPUB; USPAT	OR	ON	2009/06/11 10:14
S166	154	((protect\$5 recover\$4 rerout\$4 restor\$6) with (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4) with (fault fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback)) same ((second another additional "one more" new) near4 (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4))	US-PGPUB; USPAT	OR	ON	2009/06/11 10:15
S167	146	S166 and S165	US-PGPUB; USPAT	OR	ON	2009/06/11 10:16

S168	154	((protect\$5 recover\$4 rerout\$4 restor\$6) with (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4 request\$4) with (fault fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback)) same ((second another additional "one more" new) near4 (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4))	US-PGPUB; USPAT	OR	ON	2009/06/11 10:48
S169	146	S168 and S165	US-PGPUB; USPAT	OR	ON	2009/06/11 10:56
S170	37	((protect\$5 recover\$4 rerout\$4 restor\$6) near6 (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4 request\$4) with (fault fail\$4 lack\$4 without) near2 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback)) same ((second another additional "one more" new) near2 (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4))	US-PGPUB; USPAT	OR	ON	2009/06/11 10:57
S171	828	(((\$6network \$6ring "ms-sp ring" upsr bpsr blsr) near6 (protect\$5 recover\$4 rerout\$4 restor\$6)) and ((protect\$5 recover\$4 rerout\$4 restor\$6) with (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 communicat\$4 inform\$4 order\$4) with (fault fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))	US-PGPUB; USPAT	OR	ON	2009/06/11 10:58
S172	33	S170 and S171	US-PGPUB; USPAT	OR	ON	2009/06/11 11:06

S173	37	((protect\$5 recover\$4 rerout\$4 restor\$6) near6 (fault messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 inform\$4 order\$4 request\$4) with (fail\$4 lack\$4 without) near3 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback)) same ((second another additional "one more" new) near3 (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 inform\$4 order\$4 request\$4))	US-PGPUB; USPAT	OR	ON	2009/06/11 11:23
S174	19	S173 not S170	US-PGPUB; USPAT	OR	ON	2009/06/11 11:24
S175	31	((protect\$5 recover\$4 rerout\$4 restor\$6) with ((first primary) near4 (messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 inform\$4 order\$4 request\$4)) with ((fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near4 (message notification alert indication instruction direction order request))	US-PGPUB; USPAT	OR	ON	2009/06/11 11:35
S176	95	((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 directive inform\$4 order\$4 request\$4) with ((fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near4 (command message notification alert indication instruction directive order request))	US-PGPUB; USPAT	OR	ON	2009/06/11 11:42

S177	95	((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 directive inform\$4 order\$4 request\$4) with ((fail\$4 lack\$4 without) near\$4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near\$4 (command message notification alert indication instruction directive order request)) and (\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls)	US-PGPUB; USPAT	OR	ON	2009/06/11 11:44
S178	6	((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 directive inform\$4 order\$4 request\$4) with ((fail\$4 lack\$4 without) near\$4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near\$4 (command message notification alert indication instruction directive order request) with (port terminal i/o input)) and (\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls)	US-PGPUB; USPAT	OR	ON	2009/06/11 11:51
S179	6	(\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) and ((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 request\$4) with ((node terminal element source origin router device) near\$3 (fail\$4 lack\$4 without) near\$3 (respond\$4 reply\$4 answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near\$4 (command message notification alert indication instruction directive order request))	US-PGPUB; USPAT	OR	ON	2009/06/11 12:11



S180	10	(\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) and ((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 request\$4)) same ((node terminal element source origin router device) near3 (fail\$4 lack\$4 without) near3 (respond\$4 reply\$4 answer\$4 acknowledg\$4 ack feedback)) same ((second secondary another additional "one more" new) near4 (command message notification alert indication instruction directive order request))	US-PGPUB; USPAT	OR	ON	2009/06/11 12:16
S181	4	"US 6181677 B1"	US-PGPUB; USPAT	OR	ON	2009/06/11 12:29
S182	1	"20030086368"	US-PGPUB; USPAT	OR	ON	2009/06/11 12:33
S183	2	"20030031124"	US-PGPUB; USPAT	OR	ON	2009/06/11 12:34
S184	2	"20030012129"	US-PGPUB; USPAT	OR	ON	2009/06/11 12:34
S185	0	S166 and (S181 S182 S183 S184)	US-PGPUB; USPAT	OR	ON	2009/06/11 12:35
S186	4	((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 directive inform\$4 order\$4 request\$4) with ((fail\$4 lack\$4 without) near4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near4 (command message notification alert indication instruction directive order request)) and (\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) and "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 14:36

S187	3885	(\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) same "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 15:10
S188	7	(\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) same "automatic control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 15:15
S189	19	S174 and ((protect\$5 recover \$4 rerout\$4 restor\$6) and (fault messag\$4 notif\$7 alert \$5 indicat\$4 instruct\$4 direct \$4 inform\$4 order\$4 request \$4) and (fail\$4 lack\$4 without) and (respond\$4 reply\$4 response answer\$4 acknowledg \$4 ack feedback)) and ((second another additional "one more" new) and (messag \$4 notif\$7 alert\$5 indicat\$4 instruct\$4 direct\$4 inform\$4 order\$4 request\$4))	US-PGPUB; USPAT	OR	ON	2009/06/11 15:16
S190	1	(\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) with interface same "automatic control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 15:27
S191	2	(\$6network \$6ring "ms-sp ring" upsr bpsr blsr sncp sdh ason astn sonet gmpls) with interface and "automatic control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 15:29
S192	2	(\$6ring "ms-sp ring") and (upsr bpsr blsr ason astn gmpls) same "automatic control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:04
S193	4	(\$6ring "ms-sp ring") and (upsr bpsr blsr ason astn gmpls) and "automatic control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:06
S194	204	(\$6ring "ms-sp ring") and (upsr bpsr blsr ason astn gmpls) same "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:06
S195	184	(\$6ring "ms-sp ring") and (upsr bpsr blsr ason astn gmpls) with "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:10
S196	43	(\$6ring "ms-sp ring") same (upsr bpsr blsr ason astn gmpls) with "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:11

S197	1	(ms-spring och-spring "ms-sp ring") same (upsr bpsr blsr ason astn gmpls) with "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:13
S198	1	(ms-spring och-spring "ms-sp ring") same (upsr bpsr blsr ason astn gmpls) same "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:13
S199	3	(ms-spring och-spring "ms-sp ring") and (upsr bpsr blsr ason astn gmpls) same "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:13
S200	8	(ms-spring och-spring "ms-sp ring" snpc) and (upsr bpsr blsr ason astn gmpls) same "control plane"	US-PGPUB; USPAT	OR	ON	2009/06/11 16:25
S201	16	((protect\$5 recover\$4 rerout\$4 restor\$6) with (command\$4 messag\$4 notif\$7 alert\$5 indicat\$4 instruct\$4 directive inform\$4 order\$4 request\$4) with ((fail\$4 lack\$4 without) near\$4 (respond\$4 reply\$4 response answer\$4 acknowledg\$4 ack feedback))) same ((second secondary another additional "one more" new) near\$4 (command message notification alert indication instruction directive order request)) and (\$6network \$6ring "ms-sp ring" upsr bpsr blsr snpc sdh ason astn sonet gmpls) and heartbeat	US-PGPUB; USPAT	OR	ON	2009/06/12 07:29
S202	4	"US 6181677 B1"	US-PGPUB; USPAT	OR	ON	2009/06/12 07:33
S203	1	"20030086368"	US-PGPUB; USPAT	OR	ON	2009/06/12 07:33
S204	2	"20030031124"	US-PGPUB; USPAT	OR	ON	2009/06/12 07:33
S205	2	"20030012129"	US-PGPUB; USPAT	OR	ON	2009/06/12 07:33
S206	2	(S202 S203 S204 S205) and heartbeat	US-PGPUB; USPAT	OR	ON	2009/06/12 07:33

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